

AMENDMENTS TO THE CLAIMS

This Listing of Claims replaces all prior versions, and listings, of claims in this application.

1. (Withdrawn) An apparatus, comprising:
an actuator;
a sensor coupled to the actuator, the sensor to detect a physical state of a substance as it is within the actuator; and
a thermoelectric module coupled to the actuator, the module to encourage the substance within the actuator to change physical state therein.
2. (Withdrawn) The apparatus of claim 1, further comprising:
a start up circuit coupled to the actuator, sensor and module, the start up circuit, actuator, sensor and module forming an automatic feedback system.
3. (Withdrawn) The apparatus of claim 1, wherein the actuator is one of a fluid pump or a compressor.
4. (Withdrawn) The apparatus of claim 1, wherein the sensor is one of a resistance temperature detector, a thermistor, an infrared sensor, a gas sensor and a thermocouple.
5. (Withdrawn) The apparatus of claim 1, wherein the thermoelectric module comprises:
one of a thermoelectric cooler and a heater.
6. (Previously Presented) A method, comprising:
(a) determining a presence of a threshold amount of a fluid that is within a pump or a compressor; and
(b) condensing vapor of the fluid as it is present in the pump or evaporating liquid of the fluid as it is present in the compressor.
7. (Previously Presented) The method of claim 6, wherein determining comprises:

- checking a sensor coupled to the pump or compressor.
8. (Withdrawn) The method of claim 6, wherein evaporating comprises:
heating liquid to a boiling point by a thermoelectric heater.
 9. (Previously Presented) The method of claim 6, wherein condensing comprises:
cooling vapor within a liquid pump to a condensation point by a thermoelectric cooler.
 10. (Previously Presented) The method of claim 6, further comprising:
(c) repeating (a) and (b) until there is no longer a threshold amount of the fluid in the pump or compressor.
 11. (Previously Presented) The method of claim 10, further comprising:
(d) after (c), applying power to the pump or compressor.
 12. (Previously Presented) The method of claim 11, further comprising:
(e) applying power to a heat source coupled to the pump or compressor.
 13. (Withdrawn) A system, comprising:
a fluid pump or a fluid compressor;
a sensor coupled to the pump or compressor, the sensor to detect a physical state of a fluid as it is within the pump or compressor;
a thermoelectric cooler or heater coupled to the pump or compressor, the cooler or heater to cause the fluid as it is within the pump or compressor to change between a vapor and a liquid state; and
a heat source in a computer, the heat source coupled to the pump or compressor, the heat source to be cooled by the operation of the pump or compressor.
 14. (Canceled)
 15. (Withdrawn) The system of claim 13, wherein the pump is located above a lowest gravitational point of the system.

16. (Withdrawn) The system of claim 13, wherein the compressor is located below a highest gravitational point of the system.
17. (Withdrawn) The system of claim 13, wherein the sensor is one of a resistance temperature detector, a thermistor, an infrared sensor, a gas sensor and a thermocouple.
18. (Canceled)
19. (Withdrawn) The system of claim 13, further comprising:
a cold plate coupled to the heat source.
20. (Withdrawn) The system of claim 13, further comprising:
a heat exchanger coupled to the pump or compressor.
21. (Withdrawn) The system of claim 13, further comprising:
a start up circuit coupled to the pump or compressor, sensor and the cooler or heater, the start up circuit, pump or compressor, sensor and the cooler or heater forming an automatic feedback system.
22. (Withdrawn) The system of claim 13, further comprising:
an integrated circuit package containing a die in which the pump or compressor, sensor, and thermoelectric cooler or heater are built.
23. (Withdrawn) The apparatus of claim 1, wherein the thermoelectric module is functional when the actuator is not operating.
24. (Withdrawn) The system of claim 13, wherein the thermoelectric cooler or heater is functional when the pump or the compressor is not operating.
25. (Previously Presented) The method of claim 6, further comprising:
powering on the pump after condensing, or powering on the compressor after evaporating.

26. (Previously Presented) The method of claim 6, wherein determining comprises checking a sensor coupled to the pump or compressor; wherein condensing comprises cooling vapor within a liquid pump to a condensation point by a thermal electric cooler; and further comprising:

turning off the sensor and the thermal electric cooler; then

turning on the pump.

27. (New) The method of claim 6, wherein the fluid is within the pump and the pump is a liquid pump to force liquid through a system.

28. (New) The method of claim 6, wherein the fluid is within the compressor and the compressor is a vapor compressor to force vapor through a system.